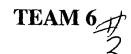


RAW SEQUENCE LISTING PATENT APPLICATION US/08/471,622



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This Raw Listing contains the General Information Section and up to the first 5 pages.

1			SEQUE	NCE LISTING	
2	(1)				
3 4	(1) G	eneral Informat	ion:		ENTE
5	(i)	APPLICANT: HUS	SE, WILLIAM D.		
7	(ii)	TITLE OF INVEN	TION: SURFACE E	XPRESSION LIBR	ARIES OF
8	(,	HETEROMERIC			
9					
10	(iii)	NUMBER OF SEQU	JENCES: 75		
11					
12	(1V)	CORRESPONDENCE		annn nnunaanu	
13 14			: PRETTY, SCHROI 44 SO. FLOWER S	•	
14 15	•	(C) CITY: LOS		IREEI, SULTE Z	00
16		(D) STATE: CA			
17		•	UNITED STATES		
18		(F) ZIP: 9007			
19					
20	(V)	COMPUTER READA			
21			PE: Floppy disk		
22		• •	IBM PC compatil		
23			SYSTEM: PC-DOS		
24 25		(D) SOFTWARE:	PatentIn Releas	3e #1.0, Versi	on #1.25
25 26	(vi)	CURRENT APPLIC	ATTON DATA		
27	(+4)	(A) APPLICATI			
28		(B) FILING DA			
29		(C) CLASSIFIC			
30					
31	(viii)	ATTORNEY/AGENT	INFORMATION:		
32		• •	PBELL, CATHRYN A		
33		• •	ION NUMBER: 31,8		
34		(C) REFERENCE	/DOCKET NUMBER:	P31 8882	
35 36	/191	THE POSSIBLE OF THE	ION INFORMATION:		
37	(17)		: 619-535-9001	;	
38		(B) TELEFAX:			
39		(5) 100011111	017 000 0717		
10					
11	(2) INFO	RMATION FOR SEQ	ID NO:1:		
12					
13	(i)	SEQUENCE CHARA			
14		• •	445 base pairs		
15		(B) TYPE: nuc	leic acid		

(C) STRANDEDNESS: both

46

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RAW SEQUENCE LISTING PATENT APPLICATION US/08/471,622

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(D) TOPOLOGY: circular (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1: AATGCTACTA CTATTAGTAG AATTGATGCC ACCTTTTCAG CTCGCGCCCC AAATGAAAAT ATAGCTAAAC AGGTTATTGA CCATTTGCGA AATGTATCTA ATGGTCAAAC TAAATCTACT CGTTCGCAGA ATTGGGAATC AACTGTTACA TGGAATGAAA CTTCCAGACA CCGTACTTTA 1.80 GTTGCATATT TAAAACATGT TGAGCTACAG CACCAGATTC AGCAATTAAG CTCTAAGCCA TCTGCAAAAA TGACCTCTTA TCAAAAGGAG CAATTAAAGG TACTCTCTAA TCCTGACCTG TTGGAGTTTG CTTCCGGTCT GGTTCGCTTT GAAGCTCGAA TTAAAACGCG ATATTTGAAG TCTTTCGGGC TTCCTCTTAA TCTTTTTGAT GCAATCCGCT TTGCTTCTGA CTATAATAGT CAGGGTAAAG ACCTGATTTT TGATTTATGG TCATTCTCGT TTTCTGAACT GTTTAAAGCA TTTGAGGGGG ATTCAATGAA TATTTATGAC GATTCCGCAG TATTGGACGC TATCCAGTCT AAACATTTTA CTATTACCCC CTCTGGCAAA ACTTCTTTTG CAAAAGCCTC TCGCTATTTT GGTTTTTATC GTCGTCTGGT AAACGAGGGT TATGATAGTG TTGCTCTTAC TATGCCTCGT AATTCCTTTT GGCGTTATGT ATCTGCATTA GTTGAATGTG GTATTCCTAA ATCTCAACTG ATGAATCTTT CTACCTGTAA TAATGTTGTT CCGTTAGTTC GTTTTATTAA CGTAGATTTT TCTTCCCAAC GTCCTGACTG GTATAATGAG CCAGTTCTTA AAATCGCATA AGGTAATTCA CAATGATTAA AGTTGAAATT AAACCATCTC AAGCCCAATT TACTACTCGT TCTGGTGTTT CTCGTCAGGG CAAGCCTTAT TCACTGAATG AGCAGCTTTG TTACGTTGAT TTGGGTAATG AATATCCGGT TCTTGTCAAG ATTACTCTTG ATGAAGGTCA GCCAGCCTAT GCGCCTGGTC TGTACACCGT TCATCTGTCC TCTTTCAAAG TTGGTCAGTT CGGTTCCCTT ATGATTGACC GTCTGCGCCT CGTTCCGGCT AAGTAACATG GAGCAGGTCG CGGATTTCGA CACAATTTAT CAGGCGATGA TACAAATCTC CGTTGTACTT TGTTTCGCGC TTGGTATAAT CGCTGGGGGT CAAAGATGAG TGTTTTAGTG TATTCTTTCG CCTCTTTCGT TTTAGGTTGG TGCCTTCGTA GTGGCATTAC GTATTTTACC CGTTTAATGG AAACTTCCTC ATGAAAAAGT CTTTAGTCCT

CAAAGCCTCT GTAGCCGTTG CTACCCTCGT TCCGATGCTG TCTTTCGCTG CTGAGGGTGA

CGATCCCGCA AAAGCGGCCT TTAACTCCCT GCAAGCCTCA GCGACCGAAT ATATCGGTTA

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101	1000100000	AIGGIIGIIG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500
102	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	ТАСААТТААА	CCCጥCCጥጥጥጥ	ርር <mark>አ</mark> ርርርጥጥጥጥ	1560
103	MI TOROUTCO	AAAGCAAGC1	GATAAACCGA	INCRAITANA	GGCICCIIII	GGAGCCIIII	1300
104	TTTTTGGAGA	TTTTCAACGT	αππαααααά	ጥጥልጥጥሮሮሮልል	ጥጥር ር ጥጥጥ እር ጥ	ጥረጥጥርርጥጥጥር	1620
105					1100111101	1011001110	1020
106	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	ል ሮል ል ል ውጥሮ ል	1680
107						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1000
108	TTTACTAACG	TCTGGAAAGA	CGACAAAACT	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740
109							
110	CTGTGGAATG	CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800
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112	TGGGTTCCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860
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114	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
115							
116	ATTCCGGGCT	ATACTTATAT	CAACCCTCTC	GACGGCACTT	ATCCGCCTGG	TACTGAGCAA	1980
117							
118	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040
119							
120	CAGAATAATA	GGTTCCGAAA	TAGGCAGGGG	GCATTAACTG	TTTATACGGG	CACTGTTACT	2100
121	aa.aa.a.			~~~~~			
122	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
123 124	MANGA GGGMM	ACTGGAACGG	maaammaaaa	a s a mada a a mm	шаа у штатаа	ammma amaa a	0000
125	TATGACGCTT	ACIGGAACGG	TAAATTCAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA	2220
126	GATICCATTICG	TTTGTGAATA	TONAGGOOAA	TO COTO TO A CO	ምርርርምር እ አርርር	መረረመረመረ እ አመ	2280
127	ONICONIICO	IIIGIGAAIA	TCAAGGCCAA	TOSTCTOACC	IGCCICAACC	ICCIGICAAI	2200
128	GCTGGCGGCG	GCTCTGGTGG	тааттетаат	GGCGGCTCTG	AGGGTGGTGG	СТСТСАСССТ	2340
129				0000001010	200100100	O I C I O A O O O I	2310
130	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT	2400
131							
132	GATTTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT	2460
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135							
136	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGCTACT	2580
137							
138	GGTGATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT	2640
139							
140	TTAATGAATA	ATTTCCGTCA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT	2700
141 142	mmamamamma s	осфотость в					0760
142	ITIGICTITA	GCGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	AATAAACTTA	2760
143	ምምርረርምርርም ር	TCTTTGCGTT	നഗന്നന്ന മന മന	CMMCCCC A CCM	птататататат	A DEPENDENCE	2820
145	1100010010	ICITIGCGII	ICITITATAT	GIIGCCACCI	TTATGTATGT	ATTTTCTACG	2020
146	ΤΤΤΤΕСΤΆΔ ΟΔ	TACTGCGTAA	ТАА ССАСТСТ	таатсатесс	ልርጥጥርጥጥጥጥር	ርርጥእ ጥጥ ር ርርጥ	2880
147		oloooinn			2011011110	COIMITCOI	2000
148	TATTATTGCG	TTTCCTCGGT	TTCCTTCTGG	ТААСТТТСТТ	CGGCTATCTG	CTTACTTTC	2940
149							
150	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTCATT	GTTTCTTGCT	CTTATTATTG	3000
151				_			-
152	GGCTTAACTC	AATTCTTGTG	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT	3060

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RAW SEQUENCE LISTING PATENT APPLICATION US/08/471,622

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156 157	TCTCTGTAAA	GGCTGCTATT	TTCATTTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG	3180
158	ATTGGGATAA	ATAATATGGC	TGTTTATTTT	GTAACTGGCA	AATTAGGCTC	TGGAAAGACG	3240
159 160	CTCGTTAGCG	TTGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT	3300
161 162	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT	3360
163 164	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTTGCTTG	CTATTGGGCG	CGGTAATGAT	3420
165							

165							
166	TCCTACGATG	AAAATAAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAAT	3480
167							
168	ACCCGTTCTT	GGAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTTCT	ACATGCTCGT	3540
169							
170	AAATTAGGAT	GGGATATTAT	TTTTCTTGTT	CAGGACTTAT	СТАТТСТТСА	TAAACAGGCG	3600
171				***************************************	011111011011		5555
	COMMOTICAN	TRACCITICA ACIA	TGTTGTTTAT	тотостаста	maaaaaaam	ma ommma oom	3660
	CGIICIGCAI	INGCIGANCA	IGIIGIIIAI	IGICGICGIC	TGGACAGAAT	TACTITACCT	2000
173							
174	TTTGTCGGTA	CTTTATATTC	TCTTATTACT	GGCTCGAAAA	TGCCTCTGCC	TAAATTACAT	3720
175							
176	GTTGGCGTTG	TTAAATATGG	CGATTCTCAA	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT	3780
177							
178	ACTGGTAAGA	ΔͲͲͲϹͲϪͲϪΔ	СССАТАТСАТ	ΔΟΨΑΛΑΟΛΟΟ	ር ተመተመተመተው A C	ጥልልጥጥልጥርነልጥ	3840
179			CCOMINIONI	ACTARACAGG	CILITIOING	INDITATIONI	3040
112							

TCCGGTGTTT ATTCTTATTT AACGCCTTAT TTATCACACG GTCGGTATTT CAAACCATTA

18	31		,					
18	32	AATTTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTTGA	AAAAGTTTTC	ACGCGTTCTT	3960
18		пататтааа х	mmaa s mmmaa	3 ma 3 aa 3 mmm	3 C 3 T 3 T 3 C T T	\#\#\\ <i>a</i>	100011000	4000
18	_	TGTCTTGCGA	TIGGATITGC	ATCAGCATTT	ACATATAGTT	ATATAACCCA	ACCTAAGCCG	4020
18		GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	GATTTTGATA	AATTCACTAT	TGACTCTTCT	4080
18								
18	-	CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT	4140
18		AGCGACGATT	TACAGAAGCA	AGGTTATTCA	משמשמשמש	ጥጥር አጥጥጥ አጥ ር	ጥልርጥርጥጥጥርር	4200
19	-		monomoon	ACCTINITION	OICHCHIAIA	TIONITIATO	TACTOTTICC	1200
19	_	ATTAAAAAAG	GTAATTCAAA	TGAAATTGTT	AAATGTAATT	AATTTTGTTT	TCTTGATGTT	4260
19								
19	_	TGTTTCATCA	TCTTCTTTTG	CTCAGGTAAT	TGAAATGAAT	AATTCGCCTC	TGCGCGATTT	4320
19	_	mama a ammaa	MAMM CA 1100	1150100001	1 magamm1 mm	ammamaaaa	.mamaa	4000
19	-	TGTAACTTGG	TATTCAAAGC	AATCAGGCGA	ATCCGTTATT	GTTTCTCCCG	ATGTAAAAGG	4380

200	TGTTTTACGT	GCTAATAATT	TTGATATGGT	TGGTTCAATT	CCTTCCATAA	TTCAGAAGTA	4500
201							
202	TAATCCAAAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA	4560
203							

TGATAATTCC GCTCCTTCTG GTGGTTTCTT TGTTCCGCAA AATGATAATG TTACTCAAAC

TACTGTTACT GTATATTCAT CTGACGTTAA ACCTGAAAAT CTACGCAATT TCTTTATTTC



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206	TTTTAAAATT	AATAACGTTC	GGGCAAAGGA	TTTAATACGA	GTTGTCGAAT	TGTTTGTAAA	4680
207 208	ርጥርጥል አጥልሮጥ	ጥርጥል ል አጥርርጥ	C	እጥሮሞእጥጥሮአሮ	מממשמשא אשמ	TATTAGTTGT	4740
209	oronannor	IOIMMIOOI	CAARIOIRII	AICIAIIGAC	GGCTCTARTC	INTINGITOI	4/40
210	TAGTGCACCT	AAAGATATTT	TAGATAACCT	TCCTCAATTC	CTTTCTACTG	TTGATTTGCC	4800
211							
212	AACTGACCAG	ATATTGATTG	AGGGTTTGAT	ATTTGAGGTT	CAGCAAGGTG	ATGCTTTAGA	4860
213		аатаатааат	ama saaamaa	a a amammaa a	aaaaamamm.	1 m 1 ama 1 aaa	4000
214 215	TTTTTCATTT	GCTGCTGGCT	CTCAGCGTGG	CACTGTTGCA	GGCGGTGTTA	ATACTGACCG	4920
216	CCTCACCTCT	GTTTTATCTT	CTGCTGGTGG	TTCGTTCGGT	አጥጥጥጥA AጥG	GCGATGTTTT	4980
217							1700
218	AGGGCTATCA	GTTCGCGCAT	TAAAGACTAA	TAGCCATTCA	AAAATATTGT	CTGTGCCACG	5040
219							
220	TATTCTTACG	CTTTCAGGTC	AGAAGGGTTC	TATCTCTGTT	GGCCAGAATG	TCCCTTTTAT	5100
221 222	ma amaamaan	ama s amaama	11mamaga11	mam			-1.60
222	TACTGGTCGT	GTGACTGGTG	AATCTGCCAA	TGTAAATAAT	CCATTTCAGA	CGATTGAGCG	5160
224	TCAAAATGTA	GGTATTTCCA	TGAGCGTTTT	TCCTGTTGCA	ATGGCTGGCG	GTAATATTGT	5220
225							0220
226	TCTGGATATT	ACCAGCAAGG	CCGATAGTTT	GAGTTCTTCT	ACTCAGGCAA	GTGATGTTAT	5280
227							
228	TACTAATCAA	AGAAGTATTG	CTACAACGGT	TAATTTGCGT	GATGGACAGA	CTCTTTTACT	5340
229 230	CCCTCCCCTC	3 CMC 3 MM 3 M 3	3 3 3 3 C 3 C M M C	ma s s a s mmam	GGGGTT A GGGTT	TCCTGTCTAA	E400
231	CGGTGGCCTC	ACIGATIATA	AAAACACTIC	ICAAGAIICI	GGCGTACCGT	TCCTGTCTAA	5400
232	AATCCCTTTA	ATCGGCCTCC	TGTTTAGCTC	CCGCTCTGAT	TCCAACGAGG	AAAGCACGTT	5460
233							
234	ATACGTGCTC	GTCAAAGCAA	CCATAGTACG	CGCCCTGTAG	CGGCGCATTA	AGCGCGGCGG	5520
235	amamaamaam						
236 237	GTGTGGTGGT	TACGCGCAGC	GTGACCGCTA	CACTTGCCAG	CGCCCTAGCG	CCCGCTCCTT	5580
238	ጥር ርርጥጥጥርጥጥ	CCCTTCCTTT	CTCGCCACGT	TCGCCGGCTT	ጥሮሮሮሮሮሞሮልል	CCTCTAAATC	5640
239						001011111110	5010
240	GGGGGCTCCC	TTTAGGGTTC	CGATTTAGTG	CTTTACGGCA	CCTCGACCCC	AAAAAACTTG	5700
241	-		•				
242	ATTTGGGTGA	TGGTTCACGT	AGTGGGCCAT	CGCCCTGATA	GACGGTTTTT	CGCCCTTTGA	5760
243 244	COTTONACTO	CACCTTCTTT	እአሞአርሞሮሮአሮ	TCTTGTTCCA	3 3 CTCC 3 3 C 3	ACACTICA ACC	5820
245	CGIIGGAGIC	CACGITCIII	AATAGTGGAC	TOTTOTTCCA	AACIGGAACA	ACACTCAACC	3020
246	CTATCTCGGG	CTATTCTTTT	GATTTATAAG	GGATTTTGCC	GATTTCGGAA	CCACCATCAA	5880
247							
248	ACAGGATTTT	CGCCTGCTGG	GGCAAACCAG	CGTGGACCGC	TTGCTGCAAC	TCTCTCAGGG	5940
249	0010000000						
250 251	CCAGGCGGTG	AAGGGCAATC	AGCTGTTGCC	CGTCTCGCTG	GTGAAAAGAA	AAACCACCCT	6000
252	GGCGCCCAAT	ACGCAAACCG	ССТСТССССС	ССССТТСССС	САТТСАТТА	TGCAGCTGGC	6060
253						. 504001000	5000
254	ACGACAGGTT	TCCCGACTGG	AAAGCGGGCA	GTGAGCGCAA	CGCAATTAAT	GTGAGTTAGC	6120
255							
256	TCACTCATTA	GGCACCCCAG	GCTTTACACT	TTATGCTTCC	GGCTCGTATG	TTGTGTGGAA	6180
257 258	THE THE METERS	እጥአ እ <i>ር</i> እ አጠመመ	ananaaama	ACTTGGCACT	aaaaamaamm	mma da a domo	6240
230	1 TO LOAGUGG	ATAACAATTT	CACACGCGTC	ACTIGGCACT	GGCCGTCGTT	TTACAACGTC	6240







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